

**METHODS AND DEVICES FOR RECORDING CHANGES IN  
VISUAL STIMULI OBSERVED THROUGH BROWSER-BASED  
INTERFACES**

**ABSTRACT**

5           The invention provides methods and devices that address problems  
encountered when attempting to accurately reconstruct visual stimuli being  
displayed to a user as they interact with online-content, typically through a  
browser interface. In one embodiment, the invention provides for the browser  
to maintain a record of selected technical parameters and relevant data that  
10       may impact the manner in which online-content is being displayed to the user,  
taking into consideration the current context in which the browser is being  
operated. In another embodiment, the invention is a device for recording  
events as reported from a browser interface. The events are recorded in a  
selected format and syntax to form a primary index of events and related  
15       outcomes which comprise the user's interface experience. In operation, the  
devices detects events as detected at the browser interface. Next, the devices  
identifies, categorizes, and filters detected events as to their relevance to the  
visual stimuli being presented to the user. The devices then assigns a unique  
identifier, preferably in the form of an alphanumeric string, to each relevant  
20       event. Furthermore, the devices records selected events into a log (along with  
their categorization), a unique identifier, and the time in which the event  
occurred. Yet another embodiment is a devices that records changes in  
parameters that may impact the visual stimuli.